

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Previously Presented) A method for tracing services on an application server comprising:

identifying a group of services executed on an application server, said group of services including:

a database connectivity service;

a transport protocol service for a network that said application server is coupled to;

a web based service that is implemented with a web page and a business logic component;

for each service in the group, identifying an interconnection to another one of the services in the group such that a plurality of interconnections are identified, each of the interconnections having respective entry and/or exit methods that correspond to entry and/or exit points to and/or from its corresponding service;

modifying bytecode of the respective entry and/or exit methods;

executing the group of services such that the interconnections are utilized; and, tracing invocations of the respective entry and/or exit methods.

2. (Previously Presented) The method as in claim 1 wherein the application server is a server executing object-oriented program code and wherein the group of services comprise object-oriented services.

3. (Previously Presented) The method as in claim 2 wherein the transport protocol service comprises a hypertext transport protocol ("HTTP") service.
4. (Currently Amended) The method as in claim 3 wherein the web page comprises a servlet and/or a server page ~~Java Server Page (JSP)~~ and wherein at least one of the interconnections link the servlet and/or server page ~~[[JSP]]~~ to the HTTP service.
5. (Canceled)
6. (Previously Presented) The method as in claim 1 wherein the tracing of the method invocations further comprises:

collecting parameters passed between the respective entry and/or exit methods.
7. (Currently Amended) The method as in claim 6 wherein the tracing of the method invocations further comprises counting a number of times that each method of a set of methods is executed.
8. (Canceled)
9. (Previously Presented) The method as in claim 1 wherein the group of services further comprise: an interface to a proprietary system.
10. (Previously Presented) The method as in claim 9 wherein the database

connectivity service connects to an external database system.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Previously Presented) A computer system for tracing program flow of services within an application server , the computer system comprising a memory for storing program code and a processor for processing the program code to perform the operations of:

identifying a group of services executed on an application server, said group of services including:

a database connectivity service;

a transport protocol service for a network that said application server is coupled to;

a web based service that is implemented with a web page and a business logic component;

for each service in the group, identifying an interconnection to another one of the services in the group such that a plurality of interconnections are identified, each of the interconnections having respective entry and/or exit methods that correspond to entry and/or exit points to and/or from its corresponding service;

modifying bytecode of the respective entry and/or exit methods;

executing the group of services such that the interconnections are utilized; and, tracing invocations of the respective entry and/or exit methods.

15. (Previously Presented) The system as in claim 14 wherein the application server is a server that executes object-oriented program code and wherein the group of services comprise object-oriented services.

16. (Previously Presented) The system as in claim 15 wherein the transport protocol service comprises a hypertext transport protocol ("HTTP") service.

17. (Currently Amended) The system as in claim 16 wherein the web page comprises a servlet and/or a server page ~~Java Server Page (JSP)~~ and wherein at least one of the interconnections link the servlet and/or server page ~~[[JSP]]~~ to the HTTP service.

18. (Canceled)

19. (Previously Presented) The system as in claim 14 wherein the tracing of the method invocations further comprises: collecting parameters passed between the entry and/or exit methods.

20. (Previously Presented) The system as in claim 19 wherein the tracing of the method invocations further comprises counting a number times that each method of a set of methods is executed.

21. (Canceled)

22. (Previously Presented) The system as in claim 14 wherein the group of services further comprise: an interface to a proprietary system.

23. (Previously Presented) The system as in claim 22 wherein the database connectivity service connects to an external database system.

24. (Canceled)

25. Canceled

26. (Canceled)

27. (Previously Presented) The system as in claim 19 wherein the program code causes the processor to execute a handler to perform one or more specified output functions on the method invocations-.

28. (Previously Presented) The system as in claim 27 wherein one of the output functions comprises directing information collected from the method invocations to a display.

29. (Original) An article of manufacture including program code which, when executed by one or more processors, causes the one or more processors to perform the operations of:

identifying a group of services executed on an application server, said group of services including:

a database connectivity service;

a transport protocol service for a network that said application server is coupled to;

a web based service that is implemented with a web page and a business logic component;

for each service in the group, identifying an interconnection to another one of the services in the group such that a plurality of interconnections are identified, each of the interconnections having respective entry and/or exit methods that correspond to entry and/or exit points to and/or from its corresponding service; modifying bytecode of the respective entry and/or exit methods; executing the group of services such that the interconnections are utilized; and, tracing invocations of the respective entry and/or exit methods.

30. (Previously Presented) The article of manufacture as in claim 29 wherein the application server is a server executing object-oriented program code and wherein the group of services comprise object-oriented services.

31. (Previously Presented) The article of manufacture as in claim 30 wherein the transport protocol service comprises a hypertext transport protocol ("HTTP") service

32. (Currently Amended) The article of manufacture as in claim 31 wherein the web page comprises a servlet and/or a server page ~~Java Server Page (JSP)~~ and wherein at least one of the connections link the servlet and/or server page [[JSP]] to the HTTP service.

33. (Canceled)

34. (Previously Presented) The article of manufacture as in claim 29 wherein the tracing of the method invocations further comprises:

collecting parameters passed between the entry and/or exit methods.

35. (Previously Presented) The article of manufacture as in claim 34 wherein the tracing of the method invocations further comprises counting a number times that each method of a set of methods is executed.

36. - 41. (Canceled).